

Dan He (Denise) Xu

+1 (778) 714-5666
dhxxu@outlook.com
linkedin.com/in/danhe-xu-denise
xddenise.github.io/Portfolio

Education

University of British Columbia - Bachelor of Science, Computer Science Major

SEP 2017 – MAY 2023

- Major GPA: 86%

Work Experiences

Software Engineer Intern

MAY 2021 - Present

Text IQ, Vancouver

- Optimized Docker image size by pinpointing and eliminating unnecessary space usages, which reduced image size by 45% and saved around 8GB of disk space
- Reduced Docker image build time in CI/CD pipeline by 63% by rearranging layers, minimizing build context, and leveraging Docker cache
- Revamped dependency management for 30 modules with Gradle by reorganizing dependencies and adding a plugin for detecting incorrect dependency configuration, which increased code maintainability
- Upgraded 2000 unit tests from JUnit 4 to 5 by replacing old annotations and features with new supported ones

Software Developer Intern/Part-time Software Developer

JAN – DEC 2020

Copperleaf Technologies, Vancouver

- Worked in a cross-functional agile team to create a performance prediction application that was showcased on the company's annual summit with over 200 stakeholders in the summer of 2020
- Completed full stack feature implementations, bug fixes, database migrations and unit tests with Typescript, Angular, C#, and PostgreSQL, finishing around 40% of the application UI that was delivered to stakeholders
- Redesigned the structure of automated UI test project independently using Page Object Pattern with Selenium in C#, which was included in the CI/CD pipeline and reduced time to identify bugs for developers and product owner
- Created infrastructure for supporting automated API test suite to bridge the gap between two applications, which runs nightly with Jenkins to ensure the stability of the APIs

Technical Projects

UBC Tantan *React, Redux, TypeScript, Node, Express, MongoDB, Mongoose*

MAY – AUG 2020

- Developed a social networking web application in a team, which allows users to post, add friends, and group chat
- Implemented 70% of all the RESTful APIs and wrote unit tests that had over 80% code coverage
- Designed database schema and mongoose model interfaces which allows frontend and backend to share the same interfaces

SuperRent *Java, Oracle, SQL, JDBC*

OCT – NOV 2019

- Collaborated in a team of three to develop a database system for car rental company for tracking transactions
- Designed database schemas by creating an Entity-Relationship Diagram and implemented a terminal-based application for querying with embedded SQL using JDBC

Shift Scheduler *Java*

MAY – JUN 2019

- Developed a shift scheduling algorithm for Mr. Mustache Bubble Tea, which was approved by the manager to reduce scheduling time for two store locations by 95%
- Structured to include features such as multiple store locations, employees' desired number of shifts, choice of fixing a shift, removing consecutive shifts, etc.

Technical Skills

Languages

Java, JavaScript/TypeScript, C#, C, C++, HTML, CSS

Tools/Technologies

Docker, Angular, React, Redux, Node, Express, MongoDB, PostgreSQL, .NET Core, Selenium, Gradle, Git, Linux